

CLAIMS

1. A clamp device comprising:

a first member having a handle portion and a jaw portion;

a second member having a handle portion and a jaw portion;

a pivot pivotally coupling the first member and the second member intermediate their respective handle portion and jaw portion for opposed pivotal motion;

an arcuate clamp bar having a first end coupled to the first member and a second end, an arc of the arcuate clamp bar being concentric with the pivot; and

a break lever having an end pivotally coupled to the second member and having an aperture with the arcuate clamp bar extending therethrough, the break lever movable laterally between a

frictionally engaged position, frictionally engaging the arcuate clamp bar and a disengaged position, and substantially motionless longitudinally.

2. A clamp device as claimed in claim 1 wherein the arcuate clamp bar extends into the handle portion of the second member.

3. A clamp device as claimed in claim 2 further includes guide members carried by the handle portion of the second member guiding the arcuate clamp bar therethrough.

4. A clamp device as claimed in claim 1 further including a latch carried by the handle portion of the second member, the latch movable between an open position permitting the breaking lever to move to the frictionally engaged position and a closed position in which the break lever is held in the disengaged position.

5. A clamp device as claimed in claim 1 wherein at least one of the jaw portions of the first member and the second member is flexible in an outward direction and biased in an inward direction.

6. A clamp device as claimed in claim 5 wherein a portion of at least one of the jaw portions of the first member and the second member flex in an outward direction and are biased in an inward direction.

7. A clamp device as claimed in claim 6 wherein the portion of at least one of the jaw portions of the first member and the second member includes a spring clip.

8. A clamp device as claimed in claim 6 wherein the portion of at least one of the jaw portions of the first member and the second member includes a pivot joint biased in the inward direction.

9. A clamp device as claimed in claim 1 wherein at least one of the handle portions of the first member and the second member is flexible in an inward direction and biased in an outward direction.

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A clamp device comprising:

a first member having a handle portion and a jaw portion, one of the jaw portion flexible in an outward direction and biased in an inward direction and the handle portion flexible in an inward direction and biased in an outward direction;

a second member having a handle portion and a jaw portion;

a pivot pivotally coupling the first member and the second member intermediate their respective handle portion and jaw portion for opposed pivotal motion between an open position and a closed position; and

a locking assembly having a frictionally engaged position preventing the first member and the second member from moving toward the open position and a disengaged position allowing the first member and the second member to move toward the open position.

11. A clamp device as claimed in claim 10 wherein a portion of at least one of the jaw portions of the first member and the second member flex in an outward direction and are biased in an inward direction.

12. A clamp device as claimed in claim 11 wherein the portion of at least one of the ~~jaw portions~~ of the first member and the second member includes a spring clip.

13. A clamp device as claimed in claim 11 wherein the portion of each of the jaw portions of the first member and the second member includes a pivot joint biased in the inward direction.

14. A clamp device as claimed in claim 10 wherein the locking assembly comprises:

an arcuate clamp bar having a first end coupled to the first member and a second end, an arc of the arcuate clamp bar being concentric with the pivot; and

a break lever having an end pivotally coupled to the second member and having an aperture with the

arcuate clamp bar extending therethrough, the break lever movable laterally between the frictionally engaged position, frictionally engaging the arcuate clamp bar and the disengaged position, and being substantially motionless longitudinally.

15. A clamp device as claimed in claim 14 wherein the arcuate clamp bar extends into the handle portion of the second member.

16. A clamp device as claimed in claim 15 further includes guide members carried by the handle portion of the second member guiding the arcuate clamp bar therethrough.

17. A clamp device as claimed in claim 14 further including a latch carried by the handle portion of the second member, the latch movable between an open position permitting the breaking lever to move to the frictionally engaged position and a closed position in which the break lever is held in the disengaged position.